



Attachment 1

## BLAST 2 SEQUENCES RESULTS

Query: SEQ ID NO:1 of Serial No. 60/216,523

Subject: SEQ ID NO:1 of Serial No. 09/899,532

Score = 3288 bits (1710), Expect = 0.0

Identities = 1710/1710 (100%)

Strand = Plus / Plus

Query: 1 tggccctcgaggccaagaattcggcacgaggaggcgcccagaggcgccaggaccct 60  
|||||||

Sbjct: 1 tggccctcgaggccaagaattcggcacgaggaggcgcccagaggcgccaggaccct 60  
|||||||

Query: 61 cgcgtggcgctccagcacccagaccgtggcgccctcgcccttaggaaagagcaaggga 120  
|||||||

Sbjct: 61 cgcgtggcgctccagcacccagaccgtggcgccctcgcccttaggaaagagcaaggga 120  
|||||||

Query: 121 agaactttatttgaaccgcgaacatttttggtaactgagatcgagtctccagtgcttt 180  
|||||||

Sbjct: 121 agaactttatttgaaccgcgaacatttttggtaactgagatcgagtctccagtgcttt 180  
|||||||

Query: 181 ggctcccgccctttatcggtggttatccctgagctgtctcccttccgaacctcc 240  
|||||||

Sbjct: 181 ggctcccgccctttatcggtggttatccctgagctgtctcccttccgaacctcc 240  
|||||||

Query: 241 cgggtgcagccctagagccctccgcggctgactccagagttagaggaagggaggcggc 300  
|||||||

Sbjct: 241 cgggtgcagccctccgcggctgactccagagttagaggaagggaggcggc 300  
|||||||

Query: 301 ctccggctggcccccgtaaccctcgctgcccccgagatcggtatggccagccagtcg 360  
|||||||

Sbjct: 301 ctccggctggcccccgtaaccctcgctgcccccgagatcggtatggccagccagtcg 360  
|||||||

Query: 361 ggcgtggcccccggtccggagcgcacagcaatgcaggcgcttaacattacccggag 420  
|||||||

Sbjct: 361 ggcgtggcccccggtccggagcgcacagcaatgcaggcgcttaacattacccggag 420  
|||||||

Query: 421 cagttctctcggtgtcgccggaccacaacctgacgcggagcagttcatcgctctgtac 480  
|||||||

Sbjct: 421 cagttctctcggtgtcgccggaccacaacctgacgcggagcagttcatcgctctgtac 480  
|||||||



Query: 1141 ggttcagtgc~~t~~tcgaactattcatggaaaagaaatgtccaaaatagccaggaagaagaaa 1200  
Sbjct: 1141 ggttcagtgc~~t~~tcgaactattcatggaaaagaaatgtccaaaatagccaggaagaagaaa 1200

Query: 1201 cgagctgtcattatgatggtacagtggctctttgtgtgtgtggcaccatc 1260  
Sbjct: 1201 cgagctgtcattatgatggtacagtggctctttgtgtgtgtggcaccatc 1260

Query: 1261 catgttgc~~c~~at~~t~~atgatgattgaata~~c~~agtaat~~t~~ttgaaaaggaaat~~t~~atgatgtcaca 1320  
Sbjct: 1261 catgttgc~~c~~at~~t~~atgatgattgaata~~c~~agtaat~~t~~ttgaaaaggaaat~~t~~atgatgtcaca 1320

Query: 1321 atcaagatgat~~t~~ttgc~~t~~atcg~~t~~gcaaattattggat~~t~~ttccaactccatctgt~~a~~atccc 1380  
Sbjct: 1321 atcaagatgat~~t~~ttgc~~t~~atcg~~t~~gcaaattattggat~~t~~ttccaactccatctgt~~a~~atccc 1380

Query: 1381 attgtctatgc~~t~~tttatgaaatgaaaacttcaaaaaaaaaatgtttgtctgcagttgttat 1440  
Sbjct: 1381 attgtctatgc~~t~~tttatgaaatgaaaacttcaaaaaaaaaatgtttgtctgcagttgttat 1440

Query: 1441 tgc~~a~~tagtaaataaaac~~t~~tc~~t~~ccagcacaaaggcatggaaattcaggaattacaatg 1500  
Sbjct: 1441 tgc~~a~~tagtaaataaaac~~t~~tc~~t~~ccagcacaaaggcatggaaattcaggaattacaatg 1500

Query: 1501 atgc~~g~~gaagaaagcaaa~~g~~tttcc~~c~~tcagagagaatcc~~a~~gtggaggaaaccaaaggagaa 1560  
Sbjct: 1501 atgc~~g~~gaagaaagcaaa~~g~~tttcc~~c~~tcagagagaatcc~~a~~gtggaggaaaccaaaggagaa 1560

Query: 1561 gcattc~~a~~gtgatggcaacattgaagg~~t~~caattgtgtgaacacagacagaggagaagaaaaag 1620  
Sbjct: 1561 gcattc~~a~~gtgatggcaacattgaagg~~t~~caattgtgtgaacacagacagaggagaagaaaaag 1620

Query: 1621 ctcaa~~a~~cgacat~~t~~tgctcttttaggtctgaactggctgagaattctc~~c~~tttagacagt 1680  
Sbjct: 1621 ctcaa~~a~~cgacat~~t~~tgctcttttaggtctgaactggctgagaattctc~~c~~tttagacagt 1680

Query: 1681 gggcattaattataacaat~~a~~tctcataat 1710  
Sbjct: 1681 gggcattaattataacaat~~a~~tctcataat 1710

## BLAST 2 SEQUENCES RESULTS

Query: SEQ ID NO:2 of Serial No. 60/216,523

Subject: SEQ ID NO:2 of Serial No. 09/899,532

Score = 865 bits (2235), Expect = 0.0  
Identities = 431/431 (100%), Positives = 431/431 (100%)

Query: 1 MQALNITPEQFSRLLRDHNLTREQFIALYRLRPLVYTPELPGRAKLALVLTGVLIFALAL 60  
MQALNITPEQFSRLLRDHNLTREQFIALYRLRPLVYTPELPGRAKLALVLTGVLIFALAL

Sbjct: 1 MQALNITPEQFSRLLRDHNLTREQFIALYRLRPLVYTPELPGRAKLALVLTGVLIFALAL 60

Query: 61 FGNALVFYVVTRSKAMRTVTNIFICSLALSDLLLITFFCIPVVMLQNISDNWLGGAFICKM 120  
FGNALVFYVVTRSKAMRTVTNIFICSLALSDLLLITFFCIPVVMLQNISDNWLGGAFICKM

Sbjct: 61 FGNALVFYVVTRSKAMRTVTNIFICSLALSDLLLITFFCIPVVMLQNISDNWLGGAFICKM 120

Query: 121 VPFWQSTAVVTEILTMTCAVERHQGLVHPFKMKWQYTNRRAFTMLGVVWLAVIVGSPM 180  
VPFWQSTAVVTEILTMTCAVERHQGLVHPFKMKWQYTNRRAFTMLGVVWLAVIVGSPM

Sbjct: 121 VPFWQSTAVVTEILTMTCAVERHQGLVHPFKMKWQYTNRRAFTMLGVVWLAVIVGSPM 180

Query: 181 WHVQQLEIKYDFLYEKEHICCLEEWTSVHQKIFYTTFILVILFLLPLMVMLILYSKIGYE 240  
WHVQQLEIKYDFLYEKEHICCLEEWTSVHQKIFYTTFILVILFLLPLMVMLILYSKIGYE

Sbjct: 181 WHVQQLEIKYDFLYEKEHICCLEEWTSVHQKIFYTTFILVILFLLPLMVMLILYSKIGYE 240

Query: 241 LWIKKRVGDGSVLRTIHGKEMSKIARKKKRAVIMMVTVALFAVCWAPFHVVHMMIEYSN 300  
LWIKKRVGDGSVLRTIHGKEMSKIARKKKRAVIMMVTVALFAVCWAPFHVVHMMIEYSN

Sbjct: 241 LWIKKRVGDGSVLRTIHGKEMSKIARKKKRAVIMMVTVALFAVCWAPFHVVHMMIEYSN 300

Query: 301 FEKEYDDVTIKMIFAIVQIIGFSNSICNPIVYAFMNENFKKNVLSAVCYCIVNKTFSPAQ 360  
FEKEYDDVTIKMIFAIVQIIGFSNSICNPIVYAFMNENFKKNVLSAVCYCIVNKTFSPAQ

Sbjct: 301 FEKEYDDVTIKMIFAIVQIIGFSNSICNPIVYAFMNENFKKNVLSAVCYCIVNKTFSPAQ 360

Query: 361 RHGNSGITMMRKAKFSLRENVPVEETKGEAFSDGNIEVKLCEQTEEKKKLKRHLALFRSE 420  
RHGNSGITMMRKAKFSLRENVPVEETKGEAFSDGNIEVKLCEQTEEKKKLKRHLALFRSE

Sbjct: 361 RHGNSGITMMRKAKFSLRENVPVEETKGEAFSDGNIEVKLCEQTEEKKKLKRHLALFRSE 420

Query: 421 LAENSPLDSGH 431

LAENSPLDSGH

Sbjct: 421 LAENSPLDSGH 431